

ABSTRACT OF THE DISCLOSURE

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2 A gradient domain compression system generates, from an input image having a high
3 luminance dynamic range, an output image having a lower luminance dynamic range. The system
4 comprises a gradient image generator module, a gradient compression module, and an output image
5 generator module. The gradient image generator module is configured to generate, from the input
6 image, a gradient image representing, for respective points of the input image, gradient values in the
7 luminance of the input image. The gradient compression module is configured to receive the
8 gradient image and generate a compressed range gradient image in which the range of gradient
9 values are compressed. The output image generator module is configured to receive the compressed
10 range gradient image and to generate therefrom an image, the image generated by the output image
11 generator module comprising the output image.